

Form PTO-1449  
(Modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.  
MMMIP951028(US)  
USC1X1X1D1SERIAL NO.  
08/485,070APPLICANT  
Kurt W. GetreuerFILING DATE  
June 7, 1995GROUP  
~~Unknown~~ 9516

(37 CFR 1.98(b))

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.D	AA	2	4	3	2	4	3	2	120947	MacNeille	—	—	
↑	AB	3	3	1	0	7	9	2	032167	Groom, et al.	—	—	
	AC	3	5	3	6	3	7	5	102770	Mansell, et al.	—	—	
	AD	3	6	5	2	1	6	7	032872	Smith	359	638	
	AE	3	6	7	7	6	2	1	071872	Smith	359	487	
	AF	3	9	3	1	6	4	1	010676	Watrous	360	104	
	AG	4	4	4	7	7	2	2	050884	Saimi	369	44.14	
	AH	4	4	4	9	2	1	3	051584	Noborimoto, et al.	369	44.16	
↓	AI	4	4	9	7	5	3	4	020585	Sincerbox	359	19	
T.D	AJ	4	5	0	2	7	8	3	030585	Lau, et al.	359	495	

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER							PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
T.D	F01			4	8	7	0	9	032082	Japan	—	—		
↑	F02			1	8	0	3	7	012982	Japan	—	—		
	F03			6	4	6	4	9	041883	Japan	—	—		
↓	F04		1	1	5	0	3	1	062185	Japan	—	—		
T.D	F05		1	2	9	9	3	7	071185	Japan	—	—		

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

T.D	P01	Hartmann, M., "Erasable Magneto-Optical Recording Media", IEEE TRANSACTIONS ON MAGNETICS, Vol. Mag-20, No. 5, September 1984, pp. 1013-1018.
T.D	P02	Sander, I., "Digital Magneto-Optic Storage System", Topical Meeting on Optica Data Storage, January 20, 1989, pp. tha2-1-Tha2-4.
T.D	P03	Murakami, et al., "Magneto optic erasable disk memory with two optical heads", APPLIED OPTICS, Vol 25, No. 22, November 15, 1986, pp.3986-3989

EXAMINER

TAN DINH

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6/12/17

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## Section 2. Form PTO - 1449 (Modified)

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Kurt W. GetreuerFILING DATE  
June 7, 1995GROUP  
(unknown)

2516

(37 CFR 1.98(b))

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.D.	AK	4	5	0	4	9	3	5	031285	Jansen	369	32	
	AL	4	5	1	4	8	3	7	043085	Van Rosmalen	369	219	
	AM	4	5	4	2	4	2	9	091785	Nishida, et al.	360	103	
	AN	4	5	6	8	1	4	2	020486	Iguma	359	819	
	AO	4	5	7	1	0	2	6	021886	Maurta	369	44.17	
	AP	4	5	9	2	0	3	7	052786	Ohnuki	369	44.15	
	AQ	4	5	9	6	4	4	4	062486	Ushida	369	44.15	
	AR	4	5	9	6	4	4	8	062484.6	Kikuchi	369	44.15	
	AS	4	6	4	3	5	2	2	021787	Takashima	369	44.17	
	AT	4	6	4	4	5	1	6	021787	Musha	369	43	

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													YES	NO
T.D.	F06	2	1	9	6	4	0		110285	Japan	—	—		
	F07	2	4	7	8	5	4		120785	Japan	—	—		
	F08	1	7	2	3	0			012586	Japan	—	—		
	F09	1	8	2	6	4	2		081586	Japan	—	—		
T.D.	F10	2	4	8	2	4	1		110586	Japan	—	—		

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

T.D.	P04	Yoshizumi, Keiichi, et al.; <u>Fast Access Actuator for Optical Disk Memory</u> , SPIE, 1985.
T.D.	P05	G. Bouwhuis, et al., <u>Principals of Optical Disc Systems</u> , Adam Hilger Ltd., Bristol, pp. 70-80.
T.D.	P06	Kobori, et al., "New Magneto-Optic Head with a Built-In Generator for a Bias Magnetic Field", Optical Data Storage Conference, Technical Digest Series Vol. 10, March 11-13, 1987, pp. 186-189.

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Kurt W. GetreuerFILING DATE  
June 7, 1995GROUP  
~~(Specimen)~~ 2516

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.D.	AU	4 6 4 6 2 8 3	022487	Ito et al.	369	256	
A	AV	4 6 6 9 0 7 3	052487	Wakabayashi et al.	369	111	
	AW	4 6 7 9 9 0 4	071487	Kurihara	369	44.15	
	AX	4 6 9 4 4 4 7	091587	Cohen et al.	369	112	
	AY	4 7 0 2 5 5 5	102787	Iguma et al.	369	44.16	
	AZ	4 7 4 0 9 4 6	042688	Yumura et al.	369	219	
	BA	4 7 6 3 3 1 4	080988	McCaslin et al.	369	249	
	BB	4 7 8 6 9 9 9	112288	Tanaka et al.	360	104	
V	BC	4 7 9 2 8 7 5	122088	Ohdaira	360	104	
T.D.	BD	4 7 9 4 5 8 6	122788	Korth	369	215	

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		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
T.D.	F11	2 0 5 5 4 0	091087	Japan	—	—		

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

T.D.	P07	Hiromichi Kobori et al., "New magneto-optic head with a built-in generator for a bias magnetic field", Applied Optics/ Vol. 27/ No. 4/ February 15, 1988, Pgs. 698-702
T.D.	P08	Eguchi, Naoya, et al., An 86 mm Magneto-Optical Disk Drive with a Compact and fast-seek-time Optical head, SPIE Vol. 1316 Optical data Storage (1990), pgs. 2-10
T.D.	P09	T. Maeda, et al., Read Channel and Format for High Density Magneto-Optical Disk System, Joint International Symposium, 1993 IEEE CATALOG #93TH0548-8, Pgs.59,60

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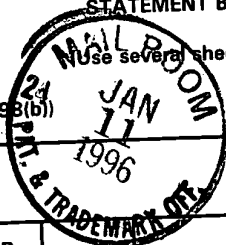
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9516

(37 CFR 1.93(b))



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.D.	BE	4	7	9	7	7	6	3	011089	Levy et al.	360	104	
	BF	4	8	1	1	3	2	0	030789	Kawasaki eg al.	369	44.22	
	BG	4	8	2	3	3	3	6	041889	Inada et al.	369	215	
	BH	4	8	2	9	3	9	5	050989	Coon et al.	360	104	
	BI	4	8	4	2	3	9	2	062789	Nakamura et al.	369	44.14	
	BJ	4	8	4	5	6	9	9	070489	Kawasaki et al.	369	44.22	
	BK	4	8	5	3	8	1	1	080189	BROOKS, Jr et al	360	103	
	BL	4	8	6	8	6	9	4	091989	Hagen	360	104	
	BM	4	8	8	2	6	4	4	112189	Kimura et al.	360	104	
T.D.	BN	4	9	1	2	5	8	3	032790	Hinlein	360	104	

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							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

T.D.	P10	H. Ide, et al., <u>WRITE CONTROL METHOD FOR HIGH DENSITY MAGNETO-OPTICAL DISK SYSTEM</u> , Joint International Symposium 1993 IEEE CATALOG #93TH0548-8, Pgs. 61,62
T.D.	P11	Takeshi Maeda et al., <u>Read Channel and Format for High-Density Magneto-Optical Disk System</u> , Jpn. J. Appl. Phys. Nov. 1993, Vol. 32, pp. 5335-5341
T.D.	P12	T. Maeda et al., <u>Write Control Method for High Density Magneto-optical Disk System</u> , IEEE Transactions on Magnetics, Vol. 29 No.6 Nov.1993, pp.3787-3789

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.O.	BO	5	1	3	8	6	0	5	081192	Shtipelman et al.	369	215	
	BP	5	0	4	4	7	2	9	0903951	Tomita et al.	369	44.14	
	BQ	4	9	8	8	1	6	5	012991	Ishii et al.	359	814	
	BR	4	6	9	6	5	6	6	092987	Sekimoto et al.	369	44.15	
	BS	4	7	6	9	8	0	3	090688	Yammaiya	369	44.16	
	BT	5	1	0	3	4	3	8	040792	Masunaga et al.	369	44.22	
	BU	4	9	5	3	9	5	9	090490	Ishiwata et al.	359	708	
	BV	5	1	9	1	5	7	0	030293	Shirai	369	44.22	
	BW	5	1	5	0	3	4	3	092292	Goto et al.	369	44.22	
T.O.	BX	5	3	1	9	6	2	4	060794	Yamasaki et al.	369	44.14	

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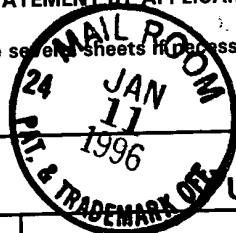
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EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BY	5 9 1 9 6 2 4	060794	Yamasaki et, al.			
T.D	BZ	4 7 2 0 0 8 8	011988	Tamura	369	44.16	
↑	CA	5 3 4 7 5 0 0	091394	Eguchi	369	44.14	
	CB	5 1 8 7 7 0 2	021693	Takahashi	369	215	
	CC	4 9 5 3 9 5 9	090490	Ishiwata et, al.	359	708	
	CD	5 1 0 3 4 3 8	040792	Masunaga et, al.	369	44.22	
	CE	4 7 6 9 8 0 3	090688	Yamamiya	369	44.25	
	CF	4 9 4 2 5 6 3	071790	Yamamuro	369	44.34	
T.D	CG	5 3 1 7 1 4 3	053194	Yoshimoto et, at	369	44.41	
	CH						

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							YES	NO

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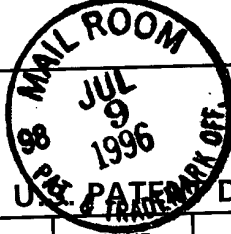
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## DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.D	AA	5,268,800	12/7/93	Nielsen	360	77.01	
	AB	5,291,110	3/1/94	Andrews, Jr. et al.	318	560	
	AC	5,398,222	3/14/95	Kim	369	32	
T.D	AD	5,459,624	10/17/95	Erickson et al.	360	77.0	

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GROUP 2100

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES   NO	
T.D	F01	EP-A2-282288	9/14/88	Europe	—	—		
	F02	EP-A2-304932	3/1/89	Europe	—	—		
	F03	EP-A2-313818	5/3/89	Europe	—	—		
	F04	JP 6-223389	8/12/94	Japan	—	—	x	
T.D	F05	KR 92-25208	12/23/92	Korea	—	—	x	

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

	P043	
	P044	

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June 7, 1995GROUP 2576  
(Currently Unknown)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.D	AA	Re. 32,051	12/17/85	Ceshkovsky et al.	369	44.28	
	AB	Re. 32,431	06/02/87	Dakin et al.	369	50	
	AC	Re. 32,574	01/05/88	Ceshkovsky et al.	369	32	
	AD	Re. 32,709	07/05/88	Ceshkovsky et al.	369	44.26	
	AE	3,518,442	06/30/70	Johnson	-	-	
	AF	3,530,258	09/22/70	Gregg et al.	-	-	
	AG	3,997,715	12/14/76	Elliott	369	44.24	
	AH	4,118,735	10/03/78	Wilkinson	369	44.13	
	AI	4,161,753	07/17/79	Bailey et al.	360	18	
	AJ	4,190,860	02/26/80	Somers et al.	369	240	
	AK	4,204,199	05/20/96 <sup>80</sup>	Isailovic	341	68	
	AL	4,210,931	07/01/80	Bailey et al.	360	32	
	AM	4,222,072	09/09/80	Bailey et al.	360	24	
	AN	4,225,873	09/30/80	Winslow	369	54	
	AO	4,228,326	10/14/80	Dakin et al.	369	32	
	AP	4,232,201	11/04/80	Canino	369	44.13	
	AQ	4,232,337	11/04/80	Winslow et al.	369	44.11	
	AR	4,232,388	11/04/96 <sup>80</sup>	Isailovic	375	360	
	AS	4,234,837	11/18/80	Winslow	369	44.14	
	AT	4,236,050	11/25/80	Winslow et al.	369	47	
T.D	AU	4,236,105	11/25/80	Wilkinson	369	44.14	

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(Currently Unknown)

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.D	AV	4,271,334	06/02/81	Yardy	369	33	
^	AW	4,282,598	08/04/81	Elliott	369	44.32	
	AX	4,307,381	12/22/81	Isailovic	341	68	
	AY	4,313,191	01/26/82	Winslow et al.	369	275.3	
	AZ	4,358,796	11/09/82	Ceshkovsky et al.	369	44.35	
	BA	4,370,679	01/25/83	Ceshkovsky et al.	369	48	
	BB	4,371,899	02/01/83	Ceshkovsky et al.	369	44.29	
	BC	4,375,091	02/22/83	Dakin et al.	369	32	
	BD	4,406,000	09/20/83	Shoji et al.	369	44.25	
	BE	4,414,655	11/08/83	Shoji et al.	369	44.25	
	BF	4,439,848	03/27/84	Ceshkovsky et al.	369	44.29	
	BG	4,451,913	05/29/84	Elliott	369	44.14	
	BH	4,455,634	06/19/84	Efron et al.	369	58	
	BI	4,456,914	06/26/84	Winslow	369	54	
	BJ	4,465,977	08/14/84	Lopez De Romana	327	20	
	BK	4,467,467	08/21/84	Wilkinson et. al.	369	111	
	BL	4,488,279	12/11/84	Wilkinson et al.	369	54	
	BM	4,499,569	02/12/85	Lopez De Romana	369	44.23	
	BN	4,524,444	06/18/85	Efron et al.	369	53	
	BO	4,536,863	08/20/85	Giddings	369	43	
T.D	BP	4,562,577	12/31/85	Glover et al.	369	32	

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T.D.	BQ	4,571,716	02/18/86	Szerlip	369	54	
↑	BR	4,583,210	04/15/86	Winslow	369	54	
	BS	4,598,324	07/01/86	Efron et al.	369	58	
	BT	4,603,363	07/29/86	Rickert et al.	360	86	
	BU	4,611,318	09/09/86	Winslow	369	54	
	BV	4,623,837	11/18/86	Efron et al.	324	76.22	
	BW	4,627,038	12/02/86	Abed et al.	369	44.28	
	BX	4,633,471	12/30/86	Perera et al.	371	37.7	
	BY	4,638,377	01/20/87	Dakin	386	104	
	BZ	4,682,246	07/21/87	Efron et al.	369	58	
	CA	4,688,204	08/18/87	Noyes, Jr. et al.	369	59	
	CB	4,697,167	09/29/87	O'Keeffe et al.	369	59	
	CC	4,701,898	10/20/87	Giddings	369	32	
	CD	4,703,368	10/27/87	Dakin	386	101	
	CE	4,703,467	10/27/87	Elliott	369	44.25	
	CF	4,706,133	11/10/87	Giddings	369	32	
	CG	4,727,433	02/23/88	Dakin	386	75	
	CH	4,727,532	02/23/88	Giddings	369	32	
	CI	4,740,941	04/26/88	Shah et al.	369	48	
↓	CJ	4,746,991	05/24/88	Efron et al.	369	53	
T.D.	CK	4,751,692	06/14/88	Giddings	369	32	

EXAMINER

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(37 CFR 1.98(b))

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Kurt W. GetreuerFILING DATE  
June 7, 1995GROUP 2516  
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EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.D	CL	4,755,884	07/05/88	Efron et al.	369	58	
↑	CM	4,757,393	07/12/88	Dakin et al.	386	105	
	CN	4,764,915	08/16/88	Efron et al.	369	58	
	CO	4,774,699	09/27/88	Giddings	369	32	
	CP	4,791,622	12/13/88	Clay et al.	369	48	
	CQ	4,805,162	02/14/89	Stahl et al.	369	32	
	CR	4,809,247	02/28/89	Elliott	369	44.11	
	CS	4,845,697	07/04/89	Giddings	369	32	
	CT	4,998,011	03/05/91	Shuman	369	44.23	
	CU	5,001,568	03/19/91	Efron et al.	369	58	
	CV	5,003,526	03/26/91	Bailey	369	59	
	CW	5,084,852	01/28/92	Bailey	369	59	
	CX	5,126,990	06/30/92	Efron et al.	369	58	
	CY	5,136,558	08/04/92	Getreuer et al.	369	44.15	
	CZ	5,155,633	10/13/92	Grove et al.	359	834	
	DA	5,177,640	01/05/93	Grassens	359	814	
	DB	5,245,174	09/14/93	Prikryl et al.	369	44.12	
	DC	5,253,244	10/12/93	Bailey	369	59	
	DD	5,313,332	05/17/94	Schell et al.	369	44.15	
	DE	5,321,680	06/14/94	Bailey	369	59	
↓	DF	5,331,622	07/19/94	Ernst et al.	369	112	
T.D	DG	5,349,175	09/20/94	Prikryl	369	44.41	

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EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.D	DH	5,373,490	12/13/94	Bailey	369	275.3	
	DI	5,375,116	12/20/94	Bailey	369	275.3	
	DJ	5,448,545	09/05/95	Bailey	369	59	
T.D	DK	5,479,390	12/26/95	Bailey	369	32	

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES   NO	
T.D	F01	833,100	01/27/70	Canada	—	—		
	F02	1,145,464	04/26/83	Canada	—	—		
	F03	1,125,434	06/08/82	Canada	—	—		
	F04	1,013,854	07/12/77	Canada	—	—		
	F05	7,900,180	04/24/84	Brazil	—	—	X	
	F06	1,628,236	11/28/90	Japan	—	—	X	
T.D	F07	1,670,392	06/11/91	Japan	—	—	X	

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

	P041	
	P042	

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